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FRIDAY, JULY 19, 1895.

DANIEL CADY EATON.

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DANIEL CADY EATON, long Professor of Botany in Yale College, died at his home in New Haven, Conn., on Saturday, June 29th. He had been ill for many months, and letters received from him during the past winter and spring show that, while he had become much discouraged about his condition, his devotion to his chosen science was unabated.

He was graduated from Yale College in 1857 and from the Lawrence Scientific School of Harvard College in 1860. He subsequently resided in New York City, where he was intimately associated with Dr. John Torrey. He was elected Professor of Botany at Yale in 1864 and occupied the chair until his death, his services to the University having thus extended over more than thirty years.

Professor Eaton's special field of work was in the taxonomy of ferns, mosses and algæ, and nearly all his published papers relate to these groups of plants, those on ferns being the most numerous, and through them his name is most widely known. The most extensive of these is his 'Ferns of North America,' published in parts during 1879 and 1880, forming two quarto volumes, illustrated by eighty-one plates. He contributed the descriptions of Filices to Dr. Chapman's 'Flora of the Southern United States' in 1860; of the Acrogens to Dr. Gray's 'Manual of Botany,' fifth edition in

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1867, and sixth edition in 1890; the treatment of the Compositæ, Filices and Equisetacæ to Dr. Sereno Watson's 'Botany of King's Expedition' in 1871 and of the Ferns and Higher Cryptogams to the same author's 'Botany of California' in 1880. He was early associated with Dr. W. G. Farlow and Dr. C. L. Anderson in the preparation and distribution of 'Algæ Boreali-Americanae,' the first consecutively numbered sets of North American algæ of any considerable extent that has been issued. Recently his attention has been specifically given to the Sphagna, and in conjunction with Mr. C. E. Faxon he was preparing sets of these plants for distribution, a most important work, which, it is sincerely hoped, will not be suspended on account of his untimely death.

Personally Professor Eaton was generous to a fault, always most willing to aid his students and correspondents in any way in his power, and beloved by all who were favored by his acquaintance.

N. L. BRITTON.

THE UNITED STATES GEOLOGICAL SURVEY.

IN his monthly report for May, 1895, the manuscript of which has been recently submitted to the Secretary of the Interior, Director Walcott, of the United States Geological Survey, remarks on the early commencement of field work this season as compared with former years, with the prospect of a longer season and more abundant results. The topographic parties nearly all took the field during May, as did also a number of geologic parties. Such topographers and geologists as were detained in Washington beyond the close of the month have since taken the field from time to time, as the exigencies of the work already in hand permitted. This early commencement of the field work of the Survey is attributable in the main to the action of Con-

gress in providing in the last Sundry Civil bill that the appropriations for the Survey for the fiscal year 1895-1896 should become available before the first of July.

In view of the importance of the Geological Survey as an instrument for the advancement of science and the development of the resources of the country, and the fact that the present report shows to a large extent the work planned for the current year, we give in some detail the different directions in which operations are in progress.

Of the geologists working in New England, Prof. N. S. Shaler was engaged principally in the preparation of his report on the Narragansett Basin, and in investigating, through the aid of Assistant Woodworth, certain morainal belts in Rhode Island. Prof. B. K. Emerson, working also in a New England area, gave two days of each week to field work for the Survey, mapping the geology of the Barre and Marlboro' sheets, of Massachusetts. In his study he was doing microscopic work and making drawings for his report. Prof. T. Nelson Dale reports that such part of the month as he was actually in the employ of the Survey was given to work on the Cambridge, N. Y., sheet.

In the State of New Jersey, Professor J. E. Wolff continued, with the assistance of Mr. Brooks, the survey of the areal geology of the Lake Hopatcong sheet. Dr. W. B. Clark, the other geologist who is working in New Jersey geology, continued the survey of the Bordentown sheet and the contiguous region. This area was taken up late in April. While in Baltimore, Dr. Clark continued his office work upon the Eocene fauna of Maryland and Virginia.

Mr N. H. Darton spent the greater part of the month in the continued preparation of the report on artesian well prospects of the Atlantic Coastal Plain. Ten days were spent on Long Island, N. Y., for the purpose of obtaining data regarding wells